

**GUANGYANG SECONDARY SCHOOL**  
**2023 Semester Plan**  
**Sec 4 Exp/5 N(A) (7059) – Design & Technology**

<b>Term 1</b>	<b>Topic</b>	<b>Remarks</b>
Week 1	Coursework Expectations and Rubrics. Presentation board (Revision on Sec3 Work)	
Week 2	Revision on Electives (Design and Structures)	
Week 3	Revision on Electives (Electronics and Mechanisms)	CNY
Week 4	Gantt Chart Reflection Template	
Week 5	Theme Analysis Seeking Design Opportunity	WA1
Week 6	Interview and Survey Research (UEF) Product Analysis	
Week 7	Design Brief, Design Situation and Design Specifications Research (UEF)	
Week 8	Idea Exploration	
Week 9	Idea Exploration	
Week 10	Idea Exploration	Sec4/5 PTM
Term Break		
<b>Term 2</b>	<b>Topic</b>	
Week 1	Idea Conceptualisation and Development	
Week 2	Development	
Week 3	Mock-up Further development	Good Fri
Week 4 Good Friday	Mock-up Further development	
Week 5	Mock-up Further development	
Week 6	Final Design Part Drawing Material List	Hari Raya Puasa
Week 7	Final Dimensions Part Drawing Material List	Labour Day Commendation Day
Week 8	Production Planning Prototyping	WA2
Week 9	Prototyping Modifications	
Week 10	Prototyping Modifications	
Semester Break (June Holidays)	Prototyping Presentation Board	
<b>Term 3</b>	<b>Topic</b>	
Week 1	Prototyping Presentation Board	Hari Raya Haji (Thur)
Week 2	Presentation Board Evaluation	Youth Day (Mon)
Week 3	Presentation Board Evaluation	
Week 4	Evaluation Improvements	

	Final Gantt Chart Submission of Coursework	
Week 5	Revision on Design	
Week 6	Revision on Structures Revision on Mechanisms	
Week 7	Revision of Electronics	
Week 8	O Level Prelims Revision	
Week 9	O Level Preliminary Examinations	
Week 10		
<b>Term 4</b>		
Week 1	O Level Revision	
Week 2		
Week 3		
Week 4		
Week 5		
Week 6	O Level Study Break	
Week 7		

Syllabus for GCE O Level Design & Technology (Subject code: 7059) can be retrieved from

[https://www.seab.gov.sg/docs/default-source/national-examinations/syllabus/olevel/2023syllabus/7059\\_y23\\_sy.pdf](https://www.seab.gov.sg/docs/default-source/national-examinations/syllabus/olevel/2023syllabus/7059_y23_sy.pdf)

Assessment Weightings					
	Term 1	Term 2	Term 3	Total	
<b>Sec 4-5</b>	Written Test WA1 (15%)	Written Test WA2 (15%)	Preliminary Exam (70%)	100%	
	National Exam Coursework				

*\*Please note that the topics might be subject to minor changes. Students will be updated accordingly.*

## 2 Assessment for National Exam Coursework

### Paper 1 (40%) Written Examination (2 hours – 80 marks)

Candidates are to answer **all** questions. The questions will be design-centric.

Question 1 requires knowledge application of Section 1 Design.

Question 2 to Question 4 require knowledge application of Section 2 Technology; specifically structures, mechanisms and electronics.

The mark allocation is:

Question 1            24 out of 80 marks

Question 2 to 4      54 out of 80 marks

### Paper 2 (60%) Design Project (60 marks)

The Design Project is an individual coursework-based examination.

The Design Project will comprise two components: The Design Journal and Presentation Board.